

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs                       | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---------------------------|------------------|---------|---------------------|
| L4    | 275  | (orii).in.  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/07/29<br>09:14 |
| L5    | 2    | (orii).in. and (patel).xa.  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/07/29<br>09:14 |
| L6    | 20   | (purge with shaft with<br>nozzle)   | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/07/29<br>09:17 |
| L7    | 2332 | (gas with (bottom or back<br>or backside) with<br>(substrate or wafer or<br>semiconductor) with (base<br>or susceptor or chuck or<br>holder))                     | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/07/29<br>09:20 |
| L8    | 1571 | (gas with ((bottom or<br>back or backside) NEAR3<br>(substrate or wafer or<br>semiconductor)) with<br>(base or susceptor or<br>chuck or holder))                  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/07/29<br>09:20 |
| L9    | 54   | ((purge near2 gas) with<br>((bottom or back or<br>backside) NEAR3<br>(substrate or wafer or<br>semiconductor)) with<br>(base or susceptor or<br>chuck or holder)) | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/07/29<br>09:21 |
| L16   | 0    | (katsuhiki near2 miya).in.  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2009/07/29<br>09:40 |
| L17   | 39   | (katsuhiko near2 miya).in.  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2009/07/29<br>09:40 |
| S1    | 1    | ("20030098040").PN.   | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/07/27<br>10:30 |
| S2    | 925  | (substrate or wafer or<br>semiconductor) and<br>((clamp or holder) same<br>(rotat\$4) same (clock<br>\$1wise) same (counter<br>\$1clock\$1wise))                  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2009/07/27<br>10:34 |
| S3    | 672  | (substrate or wafer or<br>semiconductor) and<br>((clamp or holder) same<br>(prevent\$4 near5 slip\$4))  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2009/07/27<br>10:35 |

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| S4  | 565 | (substrate or wafer or semiconductor) and ((clamp or holder) same ((rotat\$4) with (clock \$1wise) with (counter \$1clock\$1wise)))  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 10:36 |
| S5  | 445 | (substrate or wafer or semiconductor) and ((clamp or holder) with (prevent\$4 near5 slip\$4))  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 10:36 |
| S6  | 129 | (substrate or wafer or semiconductor) and ((clamp or holder) same force same ((rotat\$4) with (clock\$1wise) with (counter\$1clock\$1wise)))                                   | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 10:36 |
| S7  | 102 | (substrate or wafer or semiconductor) and (((clamp or holder) with (prevent\$4 near5 slip\$4)) same force)   | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 10:36 |
| S8  | 1   | ("2003/0098040").URPN.   | USPAT                  | OR | ON | 2009/07/27 10:59 |
| S9  | 1   | (substrate or wafer or semiconductor) and ((clamp or holder) same force same (prevent\$4 near5 slip\$4) same ((rotat \$4) with (clock\$1wise) with (counter\$1clock \$1wise))) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 12:01 |
| S10 | 4   | (substrate or wafer or semiconductor) and ((clamp or holder) same force same (slip\$4) same ((rotat\$4) with (clock \$1wise) with (counter \$1clock\$1wise)))                  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 12:02 |
| S11 | 294 | (substrate or wafer or semiconductor) and (((clamp or holder) with (slip\$4)) same force)  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 12:28 |
| S12 | 0   | (substrate or wafer or semiconductor) and ((clamp or holder) same force same slip\$4 with ((rotat\$4) with (clock \$1wise) with (counter \$1clock\$1wise)))                    | US-PGPUB; USPAT; USOCR | OR | ON | 2009/07/27 12:28 |

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| S13 | 30  | (substrate or wafer or semiconductor) and (((clamp or holder) with (slip\$4)) same force same acceleration)   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/07/27<br>12:29 |
| S14 | 2   | (substrate or wafer or semiconductor) and ((clamp or holder) same force same ((rotat\$4) with (clock\$1wise) with (counter\$1clock\$1wise)))  | EPO; JPO;<br>DERWENT      | OR | ON | 2009/07/27<br>12:55 |
| S15 | 15  | (substrate or wafer or semiconductor) and (((clamp or holder) with (slip\$4)) same force)   | EPO; JPO;<br>DERWENT      | OR | ON | 2009/07/27<br>12:56 |
| S16 | 30  | (substrate or wafer or semiconductor) and (((clamp or holder) with (slip\$4)) same force same acceleration)   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/07/27<br>13:17 |
| S18 | 109 | (centrifugal\$4 near5 (jaw or chuck or claw or finger or clamp or grip\$4 or clip or lock )) and ( (jaw or chuck or claw or finger or clamp or grip\$4 or clip or lock) near5 (pivot\$4 or force or inertia or pressure) near5 (revolv\$4 or centrifugal\$4 or spin\$4 or rotat\$4)) and ((pivot\$4 or force or inertia or pressure) near5 (controlled or adjustable or fluctuat\$4 or adjust\$4 or varied or variable or vary\$4 or chang\$4 or desir\$4 or weak\$4 or dependent or function) near5 (speed or velocity or acceleration)) | US-PGPUB;<br>USPAT        | OR | ON | 2009/07/27<br>15:15 |
| S19 | 186 | 279/129-131.ccls.   | US-PGPUB;<br>USPAT        | OR | ON | 2009/07/27<br>16:01 |
| S20 | 186 | 279/129-131.ccls.   | US-PGPUB;<br>USPAT        | OR | ON | 2009/07/28<br>08:54 |
| S21 | 4   | S20 and (centrifugal\$4 near5 (jaw or chuck or claw or finger or clamp or grip\$4 or clip or lock )) and (pivot\$4 or force or inertia or pressure) and acceleration  | US-PGPUB;<br>USPAT        | OR | ON | 2009/07/28<br>08:55 |

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| S22 | 81  | S20 and (centrifugal\$4 near5 (jaw or chuck or claw or finger or clamp or grip\$4 or clip or lock )) and (pivot\$4 or force or inertia or pressure)    | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 09:09 |
| S23 | 79  | S20 and ((centrifugal\$4 near5 (jaw or chuck or claw or finger or clamp or grip\$4 or clip or lock )) same (pivot\$4 or force or inertia or pressure)) | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 09:09 |
| S24 | 43  | S20 and ((jaw or chuck or claw or finger or clamp or grip\$4 or clip or lock ) same (slip or slipping or slide or slidding))                           | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 09:13 |
| S25 | 123 | (verhaverbeke).in.   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/07/28 13:13 |
| S26 | 92  | S25 and rpm  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/07/28 13:13 |
| S27 | 26  | 134/902.ccls. and (rpm same acceleration)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/07/28 13:20 |
| S28 | 28  | 134/902.ccls. and (rpm with accelerat\$4)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/07/28 13:21 |
| S29 | 1   | ("20050133075").PN.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/28 14:04 |
| S30 | 3   | ((("20050064706") or ("6828225") or ("6790763")).PN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/28 14:11 |
| S31 | 3   | ((("20050064703") or ("6828225") or ("6790763")).PN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/28 14:12 |
| S32 | 4   | (shinji near3 kajita).in.  | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 14:18 |
| S33 | 25  | (ichiro near3 katakabe).in.  | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 14:18 |
| S34 | 0   | ("JP-2003018792-\$.did.").PN.  | DERWENT                | OR | OFF | 2009/07/28 14:21 |
| S35 | 0   | JP-2003018792-\$.did.  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/07/28 14:21 |
| S36 | 0   | JP-200318792-\$.did.   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/07/28 14:21 |
| S37 | 0   | ("2004/0211959").URPN.   | USPAT                  | OR | ON  | 2009/07/28 14:24 |

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| S38 | 797  | ((clean\$4 or rins\$4) with (backside or bottom or back) with (substrate or wafer or semiconductor)) and (first with nozzle) and (second with nozzle)      | US-PGPUB; USPAT | OR | ON | 2009/07/28 14:27 |
| S39 | 686  | ((clean\$4 or rins\$4) with (backside or bottom or back) with (substrate or wafer or semiconductor)) and ((first with nozzle) same (second with nozzle))   | US-PGPUB; USPAT | OR | ON | 2009/07/28 14:29 |
| S40 | 114  | ((clean\$4 or rins\$4) with (backside or bottom or back) with (substrate or wafer or semiconductor)) same((first with nozzle) same (second with nozzle))   | US-PGPUB; USPAT | OR | ON | 2009/07/28 14:29 |
| S41 | 114  | ((clean\$4 or rins\$4) with (backside or bottom or back) with (substrate or wafer or semiconductor)) same ((first with nozzle) same (second with nozzle))  | US-PGPUB; USPAT | OR | ON | 2009/07/28 14:29 |
| S42 | 6475 | ((clean\$4 or rins\$4) with (backside or bottom or back) with (substrate or wafer or semiconductor))   | US-PGPUB; USPAT | OR | ON | 2009/07/28 14:32 |
| S43 | 625  | ((clean\$4 and rins\$4) with (backside or bottom or back) with (substrate or wafer or semiconductor))  | US-PGPUB; USPAT | OR | ON | 2009/07/28 14:32 |
| S44 | 11   | ((clean\$4 and rins\$4) with (backside or bottom or back) with (substrate or wafer or semiconductor)) same ((first with nozzle) same (second with nozzle)) | US-PGPUB; USPAT | OR | ON | 2009/07/28 14:32 |
| S45 | 500  | ((clean\$4 and rins\$4) with ((backside or bottom or back) near5 (substrate or wafer or semiconductor)))   | US-PGPUB; USPAT | OR | ON | 2009/07/28 14:39 |
| S46 | 4    | ((clean\$4 and rins\$4) with ((backside or bottom or back) near5 (substrate or wafer or semiconductor))) same ((first and second) near2 nozzle)            | US-PGPUB; USPAT | OR | ON | 2009/07/28 14:41 |

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|-----|------|--|------------------------|----|-----|------------------|
| S47 | 47   | ((clean\$4 and rins\$4) with ((backside or bottom or back) near5 (substrate or wafer or semiconductor))) | EPO; JPO; DERWENT      | OR | ON  | 2009/07/28 14:46 |
| S48 | 1467 | S42 and "134"/\$.ccls.   | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 14:55 |
| S49 | 1    | ("6730176").PN.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/28 15:44 |
| S50 | 4455 | ((clean\$4 or rins\$4) with ((backside or bottom or back) near5 (substrate or wafer or semiconductor)))  | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 16:01 |
| S51 | 1070 | S50 and "134"/\$.ccls.   | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 16:01 |
| S52 | 758  | S51 and (nozzles or spray \$3)   | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 16:02 |
| S53 | 459  | S51 and ((nozzles or spray \$3) with (backside or bottom or back))                                       | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 16:02 |
| S54 | 40   | S51 and (((first and second) near5 (nozzles or spray\$3)) with (backside or bottom or back))             | US-PGPUB; USPAT        | OR | ON  | 2009/07/28 16:03 |
| S55 | 0    | ("2008/0110861").URPN.   | USPAT                  | OR | ON  | 2009/07/28 16:11 |
| S56 | 1    | ("20020035762").PN.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/28 16:45 |
| S57 | 1    | ("20020096196").PN.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/28 16:52 |

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